WESTERN NATURE STUDIES

By J. H. PAUL.

OTHER LILIES OF THE ROCKY MOUNTAINS.

school room and school garden. It is not possible in this issue to give a fair outline of his lecture. Only a few points for the benefit of belated amateur gardeners can be presented. Other matters of interest treated in Professor Nothrup's address were referred to in the pends crispness and mild deven the pends crispness and pends are pends and pends are pends and pends are pends and pends and pends are pends are pends and pends are pends are pends and pends are pends ar a previous articlė.

Germination of Seeds.

grees F.), while others do best at a low fine manure.

most seeds, however, a soil temperature a few degrees higher than that temperature of from 65 to 70 degrees F. we shall now consider two other well for an air temperature of 60 degrees will prove very satisfactory for the ger- in the writer's boyhood days, sego

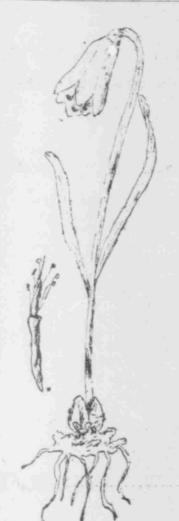
and canna seeds and snapdragon in the Transplant them to a cold frame for hardening them and promotgained in this way of handling.

Time to Plant.

melons, squash and corn are now being planted. Planting may be done earlier in a dry spring than in a wet spring. Owing to the cooling due to evaporation of water at the surface, wet soils are colder than dry soils. Many seeds planted in cold, wet soil will rot and not germ nate. Hence, it is usually best to delay the planting of ttender seeds till the soil becomes thoroughly warm and all danger of frost is past to small, opposite pair. From these arise ward, and corn are now being planted. In the plant grows on every sage-brush hill. It may be known from its slender, grass-like stem and leaves, at this season, resembling a bluish wiregrass, about six inches high, and consisting usually of only two leaves. It may finally grow to twelve inches. It always bears only a few, usually three, linear leaves, which clasp the stem at the base. The lower leaves are alternate, but later there is an upper, warm and all danger of frost is past to see the complete that the surface. Some garden seeds are perfectly hardy and are capable of enduring almost any amount of cold and dampness in the soil without injury. The young plants from these hardy seeds are also able to withstand adverse soll and weather

and regetable peas. Of these the lance-shaped, tapering, sharp-po the soil will injure them in the least. The roots of the growing plants revel in cool earth, and this condition must be Three-fold in Plan. form shed for them to do their best dur-

as March, in central latitudes, as they is cone-shaped and tapering, finally bean be gotten into the ground. Dig a coming nearly an inch long. Its setrench about a foot deep, fill in the bot-lem of this two or three inches of what imbricated, the edges very slight-



professor Northrup, horticulturist at | ed in the same manner as sweet peas professor the arrival college, spoke before the agricultural college, spoke before or they may be planted in common drills in rich, loose loam. However, to prevent packing of the soil, it is almost a sweet peas. week. He showed the students just how to raise plants in window boxes and small hotbeds, what plants to undertake the management of in the school room and school garden. It is showing seeds, and excess of heat is absorbed.

pends crispness and mild flavor of the leaves. In addition to heavy applica-tions of stable manure, dissolved or The germination of seeds depends upon a proper degree of heat, moisture and air (oxygen). All three of those and air (oxygen). All three of those degree the soil for lettuce in a dry state. and air (oxygen). All three of these conditions must be present, in normal proportions with each other, in order to insure the best germination of seed. Some seeds germinate best under a maximum degree of heat (80 to 90 define maximum degree degree maximum degree of heat (80 to 90 define maximum degree degree maximum degree degree maximum degree degree

Utah's State Flower.

In order to complete the chapter besurrounding air is desirable. A soil gun last week on Rocky mountain I lies,

digging was a favorite springtime occu-It will be difficult to secure these con-litions, however, without artificial had learned from the Indiaus that the means, such as a greenhouse, hotbed or bulb at the root of the white and pur-sold frame. Nature maintains approximately these conditions during the sego, is in early spring a choice and nutritious article of food. The name was always pronounced "see-go," not "sayflower or vegetable beds is fast going go," as some have been inclined of late out of style. The raised bed must be to rename it. The word sego is probended by hand, and it dries out too ably of Indian and not of Spanish orifast in dry weather. Make all beds level with the surface of the ground to save moisture and make the work of name of the flour from the sage palm. tending them easier.
It is best to start beets cabbage.
lettuce, tomatoes, celery, peppers, eggplant, early asters, candytuft, dahlia

despresseds and spandagon in the

The Sweet Bulb.

For those who wish to taste the bulb ing a sturdy root system. Much time of the sego, which served in some maturity of the plants may be cases in early days to avert actual famine, we may state that the bulb of this delicate lily. Utah's state flower, is now This season has been quite back- at its best as a toothsome and dainty This season has been quite back-ward, but practically all seeds except melons, squash and corn are now being brush hill. It may be known from its

warm and all danger of frost is past, small, opposite pair. From these arise

The Artistic Flowers.

The flowers usually appear about the conditions. Some of them can stand beginning of summer. When fully ex-tolerably heavy frosts without appa- panded, they are bell-shaped, symmetrical in outline, and are white, striped Among hardy seeds are cosmos, can- with mottled green and tinged with Among hardy seeds are cosmos, cannot sweet pea, vegetable pea, lettuce,
onton, asparagus and radish. Asparatus seeds do not sprout till about six
neeks after planting, and by the time
toning plants appear all danger of frost
his passed.

The same bardiest sends for the very The very hardlest seeds for the very are heart-shaped, but each has a small earliest planting are sweet peas, let point above. The three sepals are sweet flowering peas should be planted and finally spreading outwards. The first, No amount of cold or moisture in heart, the lance, the arrow—Cupid's

The bud from which the flower ex-Sweet peas should be planted as early pands is also an interesting object. It manure, fill on the manure about two ly overlapping; but the petals, the inrolled about each other in the bud. These six flower leaves form the peri-anth, or flower divisions, and opposite each segment is a stamen with a blunt. arrow-like anther. The pistil is threecelled, narrowly oblong, and several to many seeded. It is a question whether or not the sego is reproduced from seeds or whether it arises always from the little bulbs that form at the roots after the flowering is over. Some of these small bulbs may have been formed from the seeds of previous years, but some, at least, are renewed

from the old root. Delicate in Its Beauty.

On account of its rare and delicate beauty, its fragrance, and the entire absence from this choice species, of any aspect of weediness, it seems a pity that it has never been successfully domesticated. It is literally all flower, and has no weed-like remainder after

The thread-like stem, white and glistening beneath its papery underground coat, goes into the soil about six inches or more, and there expands into a tender scaly bulb, which is sweet, mucilaginous and nutritious before the plant flowers; but after flowering is dry and tasteless. This bulb is usually about three-fourths of an inch long and less than half an inch wide.

The Poison Sego.

The edible bulb of the sego lily, Calochortus, need never be confused with the poisonous one of the so-called "poison sego," Zygadenus paniculatus, which is much larger, coarser, and covered with several rough, black, scaly coats. Zygadenus is a much larger plant, its bunch of numerous tworanked or folding leaves rising like a fountain and spreading outward in sickle-like curves to the ground. This dense and deep green foliage of sickle-Fritiliaria pudica, the snowdrop, or curved leaves finally becomes a foot tah yellow rice root, one of the golden high, and need never be mistaken for llies now blooming in our canyons, the two or three slender leaves of the This is the species that was described at length in the previous article. The stem grows from three to eight inches high, rises from a flattened bulb (corm), eating the bulbs of Zygadenus. These and bears from one to six flowers. The bulbs contain an albumoid poison that have are from two to four inches long; the flowers deep yellow and shaped like writer sent specimens to a botanist. Dr. bells. The cut shows the rice-like bulb- Eccles of Brooklyn, who had the bulbs lets forming on the base of the old one: analyzed. Enough poison was found in

A study of Zygadenus.

A year ago plants of the third graders, let a trial be and under training school took and under training school took and the same environment.

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by and sepals (perianth) removed. Is said, too, but I do not know that this shelter of the sagebrush, while Zagabrakings by pupils of the training school. They are like poisonous and are sparingly eaten by cattle, which are sometimes poisoned seate, of virtue and vice, flourishing in poisoned seate, of virtue and vice, flourishing in part of the sagebrush, while Zagabraking from the sagebrush while Zagabraki

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